

Work Order ID 63023

October 18, 2010 10:12:19 AM

Page 1

Item ID: D4121-1

Accept

Setup Start

Revision ID:

Stop

Item Name: Hose Assembly

Start Date: 10/18/10 Start Qty: 2.00

Cust Item ID:

Required Date: 10/25/10 Req'd Qty: 2.00

Customer:

Reference:

Approvals: Process Plan: CZ

Date: 10/10/18

Tooling:

Date:

QC:

Date:

SPC (Y/N):

Date:

Run Start

Stop

Sequence ID/
Work Center ID

Operation
Description

Set Up/
Run Hours

Tool ID

Tool #

Plan
Code

Accept
Qty

Reject
Qty

Reject
Number

Insp.
Stamp

Draw Nbr

Revision Nbr

D4121

A

100

0.00



PURCHASING

Purchasing

Memo

0.00

Purchasing

Create D2729-1 label and include with W/O

Issue P/O: 12755

Hose Assembly as per Dwg D4121

Possible Supplier: API

Material release note is required

CZ 10/10/18 (2)

110

Receive & Inspect for Damage & Mat'l Certs

0.00



Packaging

Memo

0.00

Packaging

Ensure Material Release Note is attached

CERTIFICATE OF CONFORMITY
REQ'D UPON DELIVERY

W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: _____ PAR #: _____ Fault Category: _____ NCR: Yes No DQA: _____ Date: _____

Resolution: _____ Disposition: _____ QA: N/C Closed: _____ Date: _____

NCR:		WORK ORDER NON-CONFORMANCE (NCR)						
DATE	STEP	Description of NC Section A	Corrective Action Section B			Verification Section C	Approval Chief Eng	Approval QC Inspector
			Initial Chief Eng	Action Description Chief Eng	Sign & Date			

NOTE: Date & initial all entries

Work Order ID 63023

October 18, 2010 10:12:19 AM



Page 2

Item ID: D4121-1

Accept



Setup Start



Revision ID:

Stop



Item Name: Hose Assembly

Start Date: 10/18/10 Start Qty: 2.00



Cust Item ID:

Required Date: 10/25/10 Req'd Qty: 2.00

Customer:

Reference:

Run Start



Approvals: Process Plan: Date: Tooling: Date:

Stop



QC: Date: SPC (Y/N): Date:

Sequence ID/
Work Center ID

Operation
Description

Set Up/
Run Hours

Tool ID

Tool #

Plan
Code

Accept
Qty

Reject
Qty

Reject
Number

Insp.
Stamp

120

QC6- Inspect dimensions to drawing

0.00



QC

Memo AL Fittings
okay for conformity per P.S E-mail

Quality Control

2

10/10/22

130

Small Fab

0.00



Small Fab

Memo
Install D2729-1 as per Dwg D4121
using D2182-045 Heat Shrink
Batch: B21864B

Small Fab

ES 10/10/26 (2)

140

QC5- Inspect part completeness to step on W/O

0.00



QC

Memo

0.00

8/10/10/26

(+2)

Quality Control

Dart Aerospace Ltd

W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: _____ PAR #: _____ Fault Category: _____ NCR: Yes No DQA: _____ Date: _____

Resolution: _____ Disposition: _____ QA: N/C Closed: _____ Date: _____

NCR:		WORK ORDER NON-CONFORMANCE (NCR)						
DATE	STEP	Description of NC Section A	Corrective Action Section B			Verification Section C	Approval Chief Eng	Approval QC Inspector
			Initial Chief Eng	Action Description Chief Eng	Sign & Date			

NOTE: Date & initial all entries

[illegible]

Page 3

Accept

[illegible]

Setup Start

Abstract

Stop

[illegible]**Cust Item ID:**

Customer:

Reference:

Run Start

Date: _____ **Tooling:** _____ **Date:** _____

Stop

[illegible]

QC: _____ Date: _____ SPC (Y/N): _____ Date: _____

Operation Description

Set Up/ Run Hours

Tool ID

Tool #**Plan
Code**

**Accept
Qty**

Reject Qty

Reject
Number

**Insp.
Stamp**

150

Identify as per dwg & Stock Location: _____

0.00

Abstract

PPD 62109

0.00

Packaging

Memo

Packaging

160

QC21- Final Inspection - Work Order Release

0.00

Abstract

QC

Memo

0.00

Quality Control

S. D. DUAL 24/11/06 (2)

10.10.26 conference
only

MF 10-10-01

W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: _____ PAR #: _____ Fault Category: _____ NCR: Yes No DQA: _____ Date: _____

Resolution: _____ Disposition: _____ QA: N/C Closed: _____ Date: _____

NCR:		WORK ORDER NON-CONFORMANCE (NCR)						
DATE	STEP	Description of NC Section A	Corrective Action Section B			Verification Section C	Approval Chief Eng	Approval QC Inspector
			Initial Chief Eng	Action Description Chief Eng	Sign & Date			

NOTE: Date & initial all entries

Picklist Print

October 18, 2010 10:12:19 AM

Page 1

Work Order ID: 63023



Parent Item: D4121-1

Parent Item Name: Hose Assembly

Start Date: 10/18/10

Required Date: 10/25/10

Start Qty: 2.00

Required Qty: 2.00

Comments: IPP REV:A NEW ISSUE 10-10-05 JLM VERIFIED BY:DD

Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Qty per Kit	Total Qty	Qty Issued	Date Issued	Status
156003-6S0274		Purchased	No			100	Each	0.0000	1	2			

Hose Assembly

156003-6S0274 aluminum fittings

Per 10/18/10 (2)

Dart Aerospace Ltd

W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

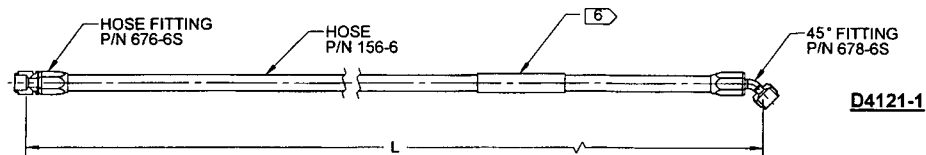
Part No: _____ PAR #: _____ Fault Category: _____ NCR: Yes No DQA: _____ Date: _____

Resolution: _____ Disposition: _____ QA: N/C Closed: _____ Date: _____

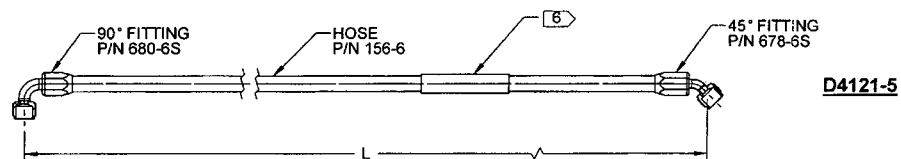
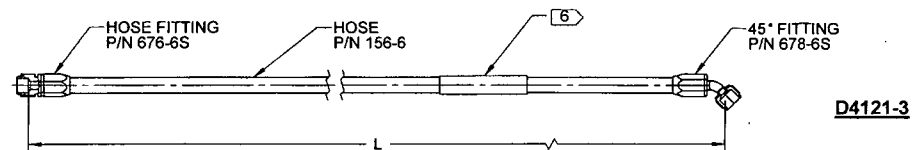
NCR:		WORK ORDER NON-CONFORMANCE (NCR)						
DATE	STEP	Description of NC Section A	Corrective Action Section B			Verification Section C	Approval Chief Eng	Approval QC Inspector
			Initial Chief Eng	Action Description Chief Eng	Sign & Date			

NOTE: Date & initial all entries

8 7 6 5 4 3 2 1



HOSE SPECIFICATION			
DART P/N	STRATOFLEX P/N	VENDOR	L
D4121-1	156003-6S0274	API	27.50
D4121-3	156003-6S0570	API	57.00
D4121-5	156062D1054S0	API	105.50



c210/10/18
w10:63023

RELEASED
R 2010-09-23

- NOTES:
- 1) MATERIAL: N/A
 - 2) FINISH: N/A
 - 3) TOLERANCES: PER DART QSI 018 UNLESS OTHERWISE NOTED
 - 4) UNITS: INCHES UNLESS OTHERWISE NOTED
 - 5) BREAK SHARP EDGES: 0.005 TO 0.010 MAX
 - 6) IDENTIFICATION: IDENTIFY WITH DART P/N & B/N USING D2729-1 LABEL INSTALLED WITH D2182-045 HEAT SHRINK
 - 7) WEIGHT: N/A
 - 8) HOSE ASSEMBLIES TO MEET THE REQUIREMENTS OF TSO-C53a TYPE "A"

A	NEW ISSUE	RF	10.09.16
REV.	DESCRIPTION	BY	DATE
DESIGN	RF		
DRAWN	RF		
CHECKED	RF		
MFG. APPR.	RF		
APPROVED	RF		
DE APPR.	RF		
DATE	10.09.16		

DART AEROSPACE USA, INC.
PORT HADLOCK, WA

DRAWING NO. **D4121** REV. A
SHEET 1 OF 1

TITLE **HOSE ASSEMBLIES** SCALE NTS

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8 7 6 5 4 3 2 1

W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: _____ PAR #: _____ Fault Category: _____ NCR: Yes No DQA: _____ Date: _____

Resolution: _____ Disposition: _____ QA: N/C Closed: _____ Date: _____

NCR:		WORK ORDER NON-CONFORMANCE (NCR)						
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			Initial Chief Eng	Action Description Chief Eng	Sign & Date			

NOTE: Date & initial all entries

L Lacelle

From: David Shepherd [dshepherd@dartaero.com]
Sent: October 15, 2010 5:22 PM
To: 'L Lacelle'; 'Robert Fuentes'
Subject: RE: hose quote

Linda,

These parts will be acceptable for conformity
 But ERA is insisting on stainless steel for production.
 What will be the cost and lead time on the stainless steel for production?

Thanks,
 David

From: L Lacelle [mailto:llacelle@dartaero.com]
Sent: Friday, October 15, 2010 8:51 AM
To: 'David Shepherd'; 'Robert Fuentes'
Subject: FW: hose quote
Importance: High

Hi Guys,
 Please advise if you would like to proceed with these hoses... and if this will be the ones we will also use
 in the future..
 Thx
 Linda

From: Laura McClelland [mailto:lmcclelland@aviall.com]
Sent: October 15, 2010 10:53 AM
To: L Lacelle
Subject: hose quote

Ok - here we go - below is part numbers for the hoses with aluminium fittings....all can be shipped in 3-4
 days after order.

156003-6D0274	131.58	(D4121-1)
156003-6D0570	165.00	(D4121-3)
156062D1054D000	271.74	(D4121-5)

If you want to proceed with these options, please send a revised P.O. and attached is a blank hose order
 form that will need to be completed.

Again my apologies for missing the lead time on the original quotation.

Thank you

Laura McClelland
 Sr. Customer Service Rep.

10/18/10

Aviall Toronto
Phone: 905-676-1695
Fax: 905-676-9046
Cisco: 843011

As of today, please send quotes and orders to the new email address: toronto@aviall.com

Any Aviall quote or acknowledgement/acceptance of your purchase order is made subject to your acceptance of Aviall's Terms and Conditions of Sales that shall replace and supersede your proposed terms and conditions for all purposes.

From: "L Lacelle" <llacelle@dartaero.com>
To: "Laura McClelland" <lmcclelland@aviall.com>
Date: 10/14/2010 08:52 AM
Subject: RE: HOSE P.O.

Laura, Laura, Laura...

What are we going to do with you????

If we used aluminum fittings, can we get it sooner???

LL

From: Laura McClelland [<mailto:lmcclelland@aviall.com>]
Sent: October 12, 2010 4:08 PM
To: L Lacelle
Subject: HOSE P.O.

OMG - don't hate me - I misread the fine print on the quote from the hose shop - lead time is 16 weeks after order.....Chantal sent me the P.O. for the hoses.

I have not entered - let me know if you still want me to proceed or if you want to cancel

I am so sorry about that, totally my fault.

Thank you

Laura McClelland
Sr. Customer Service Rep.
Aviall Toronto
Phone: 905-676-1695
Fax: 905-676-9046
Cisco: 843011

As of today, please send quotes and orders to the new email address: toronto@aviall.com

10/18/10

Any Aviall quote or acknowledgement/acceptance of your purchase order is made subject to your acceptance of Aviall's Terms and Conditions of Sales that shall replace and supersede your proposed terms and conditions for all purposes.

----- Forwarded by Laura McClelland/Toronto/Aviall on 10/12/2010 04:05 PM -----

From: Laura McClelland/Toronto/Aviall
 To: "L Lacelle" <llacelle@dartaero.com>
 Date: 10/07/2010 12:19 PM
 Subject: Re: rfq

Hello my little boo boo bum.....you had the stratoflex part numbers on the drawing so that is what I'm quoting

156003-6S0274	332.44	2-3 days
156003-6S0570	356.68	2-3 days
156062D1054S000	402.63	2-3 days

Thank you

Laura McClelland
 Sr. Customer Service Rep.
 Aviall Toronto
 Phone: 905-676-1695
 Fax: 905-676-9046
 Cisco: 843011

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Any Aviall quote or acknowledgement/acceptance of your purchase order is made subject to your acceptance of Aviall's Terms and Conditions of Sales that shall replace and supersede your proposed terms and conditions for all purposes.

From: "L Lacelle" <llacelle@dartaero.com>
 To: ""Laura McClelland"" <lmcclelland@aviall.com>
 Date: 10/07/2010 11:23 AM
 Subject: rfq

10/18/10

Hi Laura-Poo,
Could you please advise P & D on:

5 x D4121-1
5 x D4121-3
5 x D4121-5
Per attached drwg.

Thank You,
Linda Lacelle
Production Manager
Dart Aerospace Ltd

This e-mail message, including attachments, may contain confidential, proprietary, or export controlled information.

Any unauthorized disclosure, distribution, or other use is prohibited, unless expressly authorized.

If you receive this e-mail in error, please notify the sender, and delete all copies of the original message from your systems.

No virus found in this incoming message.

Checked by AVG - www.avg.com

Version: 8.5.448 / Virus Database: 271.1.1/3197 - Release Date: 10/14/10 18:34:00

10/18/10



Dart Aerospace Ltd.
1270 Aberdeen Street
Hawkesbury, ON K6A 1K7
Tel: 613 632 9577
Fax: 613 632 1053

PURCHASE ORDER

Purchase Order ID **PO12755**

Purchase Order Date 10/18/10
PO Print Date 10/18/10

Page Number 1 of 2

Order From :

VC-AVI001

AVIALL
PO BOX 9534 STATION A
TORONTO, ON M5W 2K3
CA

Contact Name

Vendor Phone

Vendor Fax

Vendor Account Nbr

905 676 1695

905 676 9046

Buyer

Requisition Nbr

Tax Resale Nbr

Terms

Currency

FOB

Chantal Lavoie

10127-2607

Net 30

CAD

Destination-Collect

Ship To :

DART AEROSPACE LTD

1270 ABERDEEN
HAWKESBURY, ON K6A 1K7
CANADA

EXPED
Expedited

Line Nbr	Reference Revision ID Vendor Part Number	Description/ Mfg ID	Req Date/ Taxable	Req Qty/ Unit of Measure	Ship Method	Unit Price	Extended Price
1	156003-6S0274	Hose Assembly	10/22/10 Yes	2.00 Each	FedEx PI ppd	\$131.5800	\$263.16
		Special Inst: AS PER DWG D4121 REV. A B63023 P/N: 156003-6D0274 WITH ALUMINUM FITTING					
2	156003-6S0570	Hose Assembly	10/22/10 Yes	1.00 Each	FedEx PI ppd	\$165.0000	\$165.00
		Special Inst: AS PER DWG D4121 REV. A B63024 P/N: 156003-6D0570 WITH ALUMINUM FITTING					
3	156062D1054S0	Hose Assembly	10/22/10 Yes	1.00 Each	FedEx PI ppd	\$271.7400	\$271.74
		Special Inst: AS PER DWG D4121 REV. A B63025 P/N: 156062D1054D000 WITH ALUMINUM FITTING					

Change Nbr: 1

Change Date: 10/18/10

11 C2
No substitution or deviation without
consent.
Certificate of Conformity or Material
Certification required when applicable



PACKING LIST



PAGE: 1

DATE: 10/20/10

TIME/HEURE: 10:28

EMP#: 22611

ORDER TYPE / TYPE DE COMMANDE: RG

CURRENCY: CAN

CUSTOMER P.O.: 12755
BON DE COMMANDEORDER NUMBER: 0000939309- 276311
No DE COMMANDEORDER DATE: 10/18/10
DATE DE COMMANDESHIP NBR: 276311
No DE EXPEDITEURSHIP VIA: FED PLAM - COLLECT
EXPEDIER PARS
O
L
V
E
N
D
U
A
T
O006166
DART AEROSPACE LTD
1270 ABERDEEN STREET
HAWKESBURY ON K6A 1K7
CANADAS
E
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D
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E
R
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O
ADART AEROSPACE LTD
1270 ABERDEEN STREET
HAWKESBURY ON K6A 1K7
CANADAS
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X
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T
O
A
34170
AVIALL TORONTO CSC
1840 ALSTEP DR. UNIT 5.
MISSISSAUGA ON L5S 1W1
CANADA

LINE	MFG	ITEM DESCRIPTION	ORDER QUANTITY QUANTITE COMMANDE	SHIP QUANTITY QUANTITE EXPEDIEE	BACK ORDER COMM. EN SOUF	UOM	LIST PRICE	CUSTOMER PRICE	EXTENDED CUSTOMER PRICE
PLEASE SHIP FEDEX P1 ON CUSTOMER ACCOUNT NUMBER 1517-9324-0, AWB# MUST REFERENCE THE PURCHASE ORDER NUMBER									
1	1S	156003-6D0274 HOSE ASSY REF HS951HD0274 Schedule B: 8803300010	2	2		0 EA	131.58	131.5800	263.16
		LOT 51226526 EA		2					
2	1S	156003-6D0570 HOSE ASSY Schedule B: 8803300010	1	1		0 EA	165.00	165.0000	165.00
		LOT 51226527 EA		1					
3	1S	156062D1054D000 HOSE ASSY Schedule B: 8803300010	1	1		0 EA	271.74	271.7400	271.74
		LOT 51226528 EA		1					

Aviall is not providing OEM parts. Aviall is an authorized Stratoflex distributor providing TSO assemblies. Numbers referenced per customer requirements are for customer reference ONLY and are in no way intended to be represented as OEM parts. Any reference to an OEM part number does not authorize or reflect installation authority for this part. The installation authority is provided

CERTIFICATE OF CONFORMANCE / CERTIFICAT DE CONFORMITE

I hereby certify that the aircraft parts, appliances and/or aircraft materials described hereon were acquired from a source of supply that is consistent with the conditions under which the department of transport distributor approval number 35-86 has been granted.
Je certifie par la presente que les pieces appareils et/ou materiaux d'avions decrits ci-dessus ont ete acquis d'une source d'approvisionnement consistante avec les conditions sous lesquelles l'approbation du distributeur du departement du transport no. 35-86 ont ete recue.

DISCOUNT TERMS APPLY ONLY TO SUB TOTAL.
ESCOMPTE APPLIQUES SUR SOUS TOTAL SEULEMENT.
ALL RETURNED MERCHANDISE SUBJECT TO A HANDLING FEE.
FRAIS DE MANUTENTION APPLIQUES SUR TOUTE MARCHANDISE RETOURNEE.

CUSTOMER COPY / FILE COPY



PACKING LIST



PAGE: 2

DATE: 10/20/10

TIME/HEURE: 10:28

EMP#: 22611

ORDER TYPE / TYPE DE COMMANDE: RG

CURRENCY: CAN

CUSTOMER P.O.: 12755
BON DE COMMANDEORDER NUMBER: 0000939309- 276311
No DE COMMANDEORDER DATE: 10/18/10
DATE DE COMMANDESHIP NBR:
No DE EXPEDITEURSHIP VIA: FED PLAM - COLLECT
EXPEDIER PARS O V L E N D U A T O
006166
DART AEROSPACE LTD
1270 ABERDEEN STREET
HAWKESBURY ON K6A 1K7
CANADAS E
H X
I P
D I
E R
T O
A
DART AEROSPACE LTD
1270 ABERDEEN STREET
HAWKESBURY ON K6A 1K7
CANADAS E
H X
I P
D I
E R
T O
A
34170
AVIALL TORONTO CSC
1840 ALSTEP DR. UNIT 5.
MISSISSAUGA ON L5S 1W1
CANADA

LINE	MFG	ITEM DESCRIPTION	ORDER QUANTITY QUANTITE COMMANDE	SHIP QUANTITY QUANTITE EXPEDIEE	BACK ORDER COMM. EN SOUF	UOM	LIST PRICE	CUSTOMER PRICE	EXTENDED CUSTOMER PRICE
------	-----	---------------------	--	---------------------------------------	-----------------------------	-----	------------	----------------	----------------------------

by the mechanic installing this product in accordance with FAR Part 43.

PARTS TOTAL	699.90
AOC TOTAL	0.00
TAXES	90.99
FREIGHT	0.00
FUEL SURCHARGE	0.00
ESTIMATED TOTAL	790.89
Currency: Canadian Dollar	

CERTIFICATE OF CONFORMANCE / CERTIFICAT DE CONFORMITE

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Signed

Date 10/20/10

DISCOUNT TERMS APPLY ONLY TO SUB TOTAL.
ESCOMPTE APPLIQUES SUR SOUS TOTAL SEULEMENT.
ALL RETURNED MERCHANDISE SUBJECT TO A HANDLING FEE.
FRAIS DE MANUTENTION APPLIQUES SUR TOUTE MARCHANDISE
RETOURNEE.

CUSTOMER COPY / FILE COPY